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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,503	11/24/2003	Bertrand Haas	F-745	4579
Pittney Bowes Inc. Intellectual Property and Technology Law Dept. 35 Waterview Drive P.O. Box 3000 Shelton, CT 06484			EXAMINER	
			HENNING, MATTHEW T	
			ART UNIT	PAPER NUMBER
			2431	
			MAIL DATE	DELIVERY MODE
			11/20/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/720,503	HAAS, BERTRAND				
Office Action Summary	Examiner	Art Unit				
	MATTHEW T. HENNING	2431				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>07 Oc</u>	ctober 2008.					
	action is non-final.					
3) Since this application is in condition for allowar		secution as to the merits is				
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1,2,4-9 and 11-19</u> is/are pending in th	e application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,4-9 and 11-19</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	·					
9)☐ The specification is objected to by the Examine						
		ad to by the Eveniner				
10) The drawing(s) filed on 24 November 2003 is/a	· · · · · · · · · · · · · · · · · · ·					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of the priorical state. 	s have been received. s have been received in Application ity documents have been received i (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) ☐ Interview Summary	(PTO-413)				
2) Notice of Traftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P	atent Application				
Paper No(s)/Mail Date	6) [Other:					

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1	This action is in response to the communication filed on $10/7/2008$.
2	DETAILED ACTION
3	Continued Examination Under 37 CFR 1.114
4	A request for continued examination under 37 CFR 1.114, including the fee set forth in
5	37 CFR 1.17(e), was filed in this application after final rejection. Since this application is
6	eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e)
7	has been timely paid, the finality of the previous Office action has been withdrawn pursuant to
8	37 CFR 1.114. Applicant's submission filed on 9/9/2008 has been entered.
9	Claims 1-2, 4-9, and 11-19 have been examined.
10	Response to Arguments
11	Applicant's arguments filed 9/9/2008 have been fully considered but are moot in view of
12	the new grounds of rejection presented below.
13	All objections and rejections not set forth below have been withdrawn.
14	
15	Claim Rejections - 35 USC § 103
16	The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
17	obviousness rejections set forth in this Office action:
18 19 20 21 22 23 24	A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
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1 Claims 1-2, 4-9, and 11-19 are rejected under 35 U.S.C. 103(a) as being unpatentable 2 over Carr et al. (US Patent Application Publication 2003/0130954) hereinafter referred to as 3 Carr, and further in view of Ur et al. (US Patent Number 5,813,771) hereinafter referred to as Ur. 4 Regarding claim 1, Carr disclosed a method for producing watermarked digital image 5 data comprising: providing digital image data that represents an image (Carr Paragraph 0025); 6 applying a digital watermark to the digital image data to produce watermarked digital image data 7 (Carr Paragraph 0026); and printing an image on the basis of the watermarked digital image data 8 (Carr Paragraph 0014), but Carr failed to disclose and applying a transformation to the 9 watermarked digital image data to improve the quality of the digital image data to be printed and 10 to produce transformed watermarked digital image data, the transformation being at least 11 approximately an inverse of a print-scan distortion transformation. Carr also teaches scanning 12 the watermarked digital image (Carr Paragraph 0052). 13 Ur teaches that printing and scanning introduce transformations into the image being 14 printed and scanned (Ur Col. 2 Lines 30-32). Ur further teaches a method of measuring the 15 introduced transformation to produce a transformation which compensates for the introduced distortion (Ur Col. 6 Line 61 - Col. 7 Line 5). Further, Ur teaches to apply these compensation 16 transformations prior to printing (Ur Col. 9 Lines 28-34). 17 18 It would have been obvious to the ordinary person skilled in the art at the time of 19 invention to have employed the teachings of Ur in the watermark printing and scanning system 20 of Carr by applying a printer/scanner combination transformation to the watermarked image 21 prior to printing the image. This would have been obvious because the ordinary person skilled in Application/Control Number: 10/720,503 Page 4

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the art would have been motivated to correct any distortion introduced to the image by the printer and scanner.

Regarding claim 11, Carr disclosed a method for producing watermarked digital image data comprising: providing watermark data that represents a digital watermark (Carr Paragraph 0026); providing digital image data that represents an image (Carr Paragraph 0025); and combining the watermark data with the digital image data to produce watermarked digital image data that is printed (Carr Paragraph 0026 and 0014), but Carr failed to disclose applying a transformation to the watermark data to improve the quality of the digital image data to be printed and produce transformed watermark data, the transformation being at least approximately an inverse of a print-scan distortion transformation. Carr did, however, disclose the watermark being fragile and that preferably the watermark data be hidden without leaving human-apparent evidence of alteration.

Ur teaches that printing and scanning introduce transformations into the image being printed and scanned (Ur Col. 2 Lines 30-32). Ur further teaches a method of measuring the introduced transformation to produce a transformation which compensates for the introduced distortion (Ur Col. 6 Line 61 - Col. 7 Line 5). Further, Ur teaches to apply these compensation transformations prior to printing (Ur Col. 9 Lines 28-34).

It would have been obvious to the ordinary person skilled in the art at the time of invention to have employed the teachings of Ur in the watermark printing and scanning system of Carr by applying a printer/scanner combination transformation to the watermark. This would have been obvious because the ordinary person skilled in the art would have been motivated to correct any distortion introduced to the watermark by the printer and scanner.

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1 It further would have been obvious to the ordinary person skilled in the art at the time of

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2 invention to only apply the transformation to the watermark data. This would have been obvious

because the ordinary person skilled in the art would have been motivated to leave as little

human-apparent evidence of alteration as possible.

Regarding claim 19, Carr disclosed a method comprising: (a) providing digital image data that represents an image (See Carr Paragraphs 0025-0026 marketing image); (b) applying a digital watermark to the digital image data to produce watermarked digital image data (See Carr Paragraph 0026); (d) retrieving a characteristic of the watermark (See Carr Paragraph 0028); (e) printing an image on the basis of the watermarked digital image data produced at step (b) (See Carr Paragraph 0014); (f) scanning the printed image to produce scanned image data (See Carr Paragraph 0036); (g) retrieving a characteristic of the watermark as represented by the scanned image data produced at step (f) (See Carr Paragraph 0036); and (h) comparing the characteristic retrieved at step (g) (See Carr Paragraph 0028); but Carr failed to disclose step (c) applying a print-scan distortion transformation to the watermarked digital image data to produce transformed watermarked digital image data that improves the quality of the digital image data to be printed.

Ur teaches that printing and scanning introduce transformations into the image being printed and scanned (Ur Col. 2 Lines 30-32). Ur further teaches a method of measuring the introduced transformation to produce a transformation which compensates for the introduced distortion (Ur Col. 6 Line 61 - Col. 7 Line 5). Further, Ur teaches to apply these compensation transformations prior to printing (Ur Col. 9 Lines 28-34).

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1 It would have been obvious to the ordinary person skilled in the art at the time of 2 invention to have employed the teachings of Ur in the watermark printing and scanning system 3 of Carr by applying a printer/scanner combination transformation to the watermark. This would 4 have been obvious because the ordinary person skilled in the art would have been motivated to 5 correct any distortion introduced to the watermark by the printer and scanner. 6 7 Regarding claim 2, Carr and Ur teach applying the print-scan distortion transformation to 8 the digital image data prior to embedding the watermark in the digital image data (Ur Fig. 3 and 9 associated text). 10 Regarding claim 4, Carr and Ur disclosed scanning the printed image to produce scanned 11 image data (Carr Paragraph 0036). 12 Regarding claim 5, Carr and Ur disclosed analyzing the scanned image data to retrieve 13 the watermark therein (Carr Paragraph 0036). 14 Regarding claims 6 and 15, Carr and Ur disclosed loading the transformed watermarked 15 digital image data into a postage meter (Carr Paragraph 0026). 16 Regarding claims 7 and 16, Carr and Ur disclosed using the postage meter to print a 17 postage meter indicia on a mail piece, the postage meter indicia including a printed image based 18 on the transformed watermarked digital image data (Carr Paragraph 0025). 19 Regarding claims 8 and 17, Carr and Ur disclosed scanning the printed image to produce 20 image data (Carr Paragraph 0036). 21 Regarding claims 9 and 18, Carr and Ur disclosed analyzing the scanned image data to

retrieve the watermark therein (Carr Paragraph 0036).

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Regarding claim 12, Carr and Ur taught printing an image on the basis of the 1 2 watermarked digital image data (See Carr Paragraph 0014). 3 Regarding claim 13 Carr and Ur taught scanning the printed image to produce scanned 4 image data (See Carr Paragraph 0036). 5 Regarding claim 14, Carr and Ur taught analyzing the scanned image data to retrieve the 6 watermark therein (See Carr Paragraph 0036). 7 Conclusion 8 Claims 1, 2, 4-9, and 11-19 have been rejected. 9 The prior art made of record and not relied upon is considered pertinent to applicant's 10 disclosure. 11 Any inquiry concerning this communication or earlier communications from the 12 examiner should be directed to MATTHEW T. HENNING whose telephone number is 13 (571)272-3790. The examiner can normally be reached on M-F 8-4. 14 If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the 15

organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent 1 2 Application Information Retrieval (PAIR) system. Status information for published applications 3 may be obtained from either Private PAIR or Public PAIR. Status information for unpublished 4 applications is available through Private PAIR only. For more information about the PAIR 5 system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR 6 system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would 7 like assistance from a USPTO Customer Service Representative or access to the automated 8 information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000. 9 10 11 /Matthew T Henning/ 12 Examiner, Art Unit 2431 13 14 /Christopher A. Revak/ 15 Primary Examiner, Art Unit 2431